

**A.18 The student will analyze a relation to determine whether a direct or inverse variation exists and represent it algebraically and graphically, if possible.**

1. Which description fits the variation exhibited by the relation  $\{(-2, 2), (-1, 0.5), (0, 0), (1, 0.5), (2, 2)\}$ ?
  - a.  $y$  varies directly as  $x$ , with constant of variation =  $-1$ .
  - b.  $x$  varies directly as  $y$ , with constant of variation =  $-0.5$ .
  - c.  $y$  varies inversely as  $x$ , with constant of variation =  $-0.5$ .
  - d.  $y$  varies directly as the square of  $x$ , with constant of variation =  $0.5$ .